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Przemysl Elektroniczny, No. 12, July 1963, published in Warsaw, Poland, covers information on the electronics industry in the USSR. The information was written by Anna Michalescul and the Section for Economic Studies of the ITR (Instytut Tele- i Radiotechniczny, Institute of Tele- and Radio-Technology.)

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In 1955, the production of radio-technical equipment was 1,080 percent greater than in 1940. In 1954, seven times more radios and television sets were produced than in 1947.

The most important problem in electronics now is to achieve reliability and micro-miniaturization of radio-electronic equipment. Scientific work is now conducted in the USSR on this problem.

Micro-miniaturization is accomplished through the use of micromodules of the technology of thin film and of monolitic electronic
circuits. The advantages of micro-miniaturization are many; for
example, in the standard method of assembly (with electronic tubes),
each sub-assembly has a volume of about 100 cubic centimeters.

With miniature tubes, each sub-assembly requires about 10 cubic centimeters, whereas with semi-conductors, each sub-assembly requires only one cubic centimeter. With micro-modules and with the technology of thin film, 100-200 sub-assemblies can be placed in one cubic centimeter; and with monolithic electronic circuits, over 1,000 sub-assemblies can be placed in one cubic centimeter.

In addition to a reduction in size and weight of Bequipment, the

NO FOREIGN DISSEM

use of micro-miniaturization improves the reliability of the equipment, reduces consumption of electric power, and increases the possibility of production automation.

At the Academy of Sciences of the USSR, theoretical and experimental work on the use of electronics in electric power is now being conducted. The utilization of the results of these studies will enable transmission of electric power in open space, for example, transmission of electric energy to sputniks.

Because of the great importance of the research work now being conducted, the coordination of this work and the introduction as scientific rapidly as possible of new achievements into production play an important role. On this subject, several resolutions have been issued in the USSR; for example, a few social organizations have been created whose tasks is to coordinate the work of scientists, engineers, radio amateur operators, inventors, and others. One of these organizations is the Society for Scientific and Technical Radiotechnology and Communications Means imienia A. S. Popov. This society was organized in 1945 and has a membership of about 60,000 persons.



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2. PRODUCTION

Radiophonic Equipment

The following table shows the production of radiophonic equipment in the USSR in selected years:

	<i>ITEMS</i> Wyszczególnienie	1913	. A Car			1959 tuk (in		1961
	AADIOS AND CONSOLE BADIOS Radia i radiole				-	4035		4228
RESI	Głośniki mieszkanio- we radiowezłowe	3	1766	8294	3537	4187	5000	5468

welvoing Automobile and TAPE RECORDERS

The following tables shows the sale of radios in the USSR in selected years:

		4040	1055	1058	11959	1960	1961
17FMS Wyszczególnienie	1913	1940	1960 1961 (in 1,000)				
TOTOL /		156	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I		9 .	4051	
Ogokem Ding Those For tym dla ludności		45	1320	1449	1377	1561	1498
Wiejskie Population	L	THE RESERVE OF THE PARTY OF THE		<u> </u>	A Particular Property of		

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The development of semi-conductor technology enabled series production of small semi-conductor radios, which are superior tube radios because of the lower electric power consumption.

By the end of the Seven-Year Plan in 1965, the electronic industry of the USSR will produce about 22 million radios and 9 million television sets.

Television sets

The following table shows the production and sales of television sets for selected years.

LTEMS Wyszczególnienie	1913	1940	1955	1958	1959	1960	1961	
"J82025g01IIIeIIIe	w tys. sztuk (in 1,000)							
Produkcja PRo DoeTion Sprzedaż SALES Ogółem ToTAL W tym dla ludności wiejskiej Tucku Ding Those For		0,3	495 483 46		1132	1528	1803	

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The following table shows the kinds of television sets produced by the electronic industry, and the characteristics of the sets.

Model	Kineskop <i>e</i>		Lampy	Diody	Czułość mV
Newa /	14"	70 ⁰	15	11	200
Trembita	17"	1100	17	8	100.
NoZna	17"	1100	20	15	50
Sygnaz	174	1100	20	15	50
Temp 6	1700	1100		12	100
Rubin 104	17"	1100		11	50
Salut	22"	1100		15	50
Ukraina	22"	1100	18	14	50
Temp 7	23"	1100	18	12	75
Druzba	22"	. 1100	20	15	50
Ałmaż 105	22"	1100	22	14	100
Symfonia	220	11.00		21	50
Biakorus 5	17"	110°	18	14	100
Moskwa (odbiornik przenośny) PORTABLE SFT	9"	70 ⁰	zysto-	17	100
	· «		TRANSISTORS		

Szmarage-204 television set, with a screen measuring 0.9 x 1.2 meters, is adjusted for color television program. With this large screen, 50-100 persons can view a program; hence, it is found in clubs, sanatoriums, and reading clubs.

IZUMRUD Szmaragd-205 is another type of the television set. These types of television sets are also adapted to receive black-and white programs.

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Electronic Calculating Machines

In 1952, a large BESM calculating machine was built at the Academy of Sciences of the USSR. This machine has been used for scientific and designing-structural work. In 1959, these machines were modernized through replacement of cathode-tube memory with more efficient ferrite memory; tubes were replaced with semi-conductors. This machine operates with a speed of 8,000-10,000 operations per second.

The next large calculating machine was the Striela, which was equipped with a memory of greater capacity than the memory of BESM machine. The Striela was built in 1953 at the laboratory of the Designing Bureau for Machine Construction and for Automatization.

In 1960, construction was completed of the M-20 machine. This machine is used for designing and construction work. The speed of the operations of this machine is 20,000 operations per second. During this period, several small—and average—size machines were built in some scientific laboratories. Because of their construction, their sphere of operation is limited. For example, the TSEM—1 and the URAL solve mathematical problems; the M—3 are represented designing and construction calculations; the Minsk I performs designing and construction calculations; the Minsk II performs designing and construction calculations; and solves scientific problems; and the Sietun solves scientific problems.

Some of these types of machines are produced in series; URAL and M-3 machines, since 1955. Since 1957, tangeverage of 5 of these machines has been produced a month.

In 1959, a modern, multi-sector machine, the Kijew, was built at the Calculating Center of the Ukraine Academy of Sciences. This machine is capable of developing several programs at the same time. It is equipped with 2,000 miniature tubes. The Kijew machine is used to solve complicated mathematical problems, and is also used by industrial enterprises to direct and control technological processes.

Besides the universal machines, several types of machines with special usages have been built in the USSR. For example: Krystal machines perform calculations in the field of crystallography; Pogoda, in the field of meteorology; Luch, in the field of optics; SESM-1, in the field of hydrology and hydrotechnology.

The SESM-1 machine was the first machine in Europe solving linear equations with 400 unknowns. It substitutes the work of 20 mathematicians equipped with electromechanical arithmometers. Only one engineer and one technician is needed to service the SESM-1 machine.

Electronic calculating machines great economic importance because of their use in industrial enterprises in planning and in operative control of production processes. They are particularly important in enterprises and divisions producing a wide assortment of products, using for this purpose automatic equipment. The products, using for this purpose automatic equipment. The products in Baku supposed to be equipped with digital and analogous machines. A machine how under construction in Tiflis for automatic

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Among the many types of machines constructed specailly for guiding and controlling production, one must mention the Mars-300 machine and the Kijev universal machine controll, which was built in 1961 and has a speed of 6,000-8,000 operations per second.

ural is the most recent model of a standardized, automatic dightal machine. With this machine, problems in spheres can be solved, among others, in planning and analyzing production. It average speed in solving economic problems is 9,000-10,000 operations per second.

It is estimated that in mid-1962 there were about 1,000 machines of various types and sizes in operation in the USSR

3. RADIO NETWORK

the entire day radio programs broadcast in the USSR. At the same time, programs II and III of the basic program, transmitted Moscow time daily from hours 0600 to 2400, are broadcast. This is a daily program intended for outlying areas of the country.

The radio program is prepared in different languages of the people residing in the USSR. The program is broadcast from Soviet republics, autonomous republics, and national okrugs.

Radio broadcasting in the USSR is conducted by two methods: wire-broadcasting and non-wire broadcasting.

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Seventy-fivepercent of radio programs are received through wirebroadcast network and only 25 percent through radio sets.

The following table shows the <u>number of wire broadcasting centers in the</u> republics of the USSR in selected years.

Soviet REPUBLICS Republiki związkowe	1940		1958	1959	1960	1961
		· · · · · · · · · · · · · · · · · · ·	v tys.	sztuk	(0)	, a chirth
ZSRR - ogółem 7014 L Usep.	5853	19544	27117	29155	30838	32096
Russian FEDERATION Federacja Rosyjska	4231	12687	16637	17647	18405	19021
Ukraina	1047	3974	6013	-6618	7203	7631
Białorus	160	648	1068	1171	1258	1322
Uzbekistan	56	414	746	832	887	⁷⁷ 906
Kaza ¢ hstan	146	562	821	892	968	11009
GEORGIA GENZJE	55	212	298	309	. 320	332
AZERBAIDZHAN AZOrbajozan	51	167	271.	306	330	338
Litwa		105	150	163	167	169
Maždawia	11	185	312	. 359	397	434
Łotwa ,		1.35	172	178	183	186
Kirgiz ž a	- 23	119	169	186	202	212
Tadžikistan	15	88	131	145	148	157
Armenia	33	93	125	132	139	136
Turkmenia	25	94	128	· 138	-150	160
Estonia		61	76	79	81	. 83
1	1		•	•		•

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The following table shows the development of radio broadcasting in the USSR.

ITEMS Wyszczególnienie	1913	1940			1959	ų i	•	
		2	W	ANTO O	sztuk	(in millo	NS)	1
Liczba głośników loud- radiofonii prze-PFAKFA Wodowej		7 ()	33 3	51 2	C7 C	(2)	60.4	
Liczba radioodbior- ników Number of Rados	٥				57.5 24.7			

The following table shows the number of loudspeakers and radio persons.

	Głośniki radiofonii przewodowej:	Odhiorniki radiofoniczne:	
	Drzewodowej: WIRE-BROADCAST LOUDSPEAKERS 1940 r 36.7	 1940 r 5.8	
	1955 r 166.1	 1955 r. = 65,0	
	1960 r 300.0	1960 r 131,1	Į,
٠	1961 r 317.0	 1961 r 140.0	

It was decided to develop wire broadcasting network because of the following factors: uncomplicated servicing, possibility of broadcasting local programs from wire broadcasting centers, lower power consumption, and possibility of receiving programs in localities without electricity.

During the current seven-year plan, the number of wire broadcasting loudspeakers increased by 5 million within a period of three years, of which 3 million loudspeakers were in rural areas. At the same,



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200,000 kilometers of aerial lines and 150,000 underground lines were built, and 60,000 villages were connected to the radiobroadcasting metwork. Through this, over 92 percent of sovkhozes and 89 percent of kolkchozes are now connected to radiobroadcasting transmission network, or have their own wire broadcasting centers.

Ultra-short wave broadcasting is expanding at a rapid rate. In 1959, there were 35 ultra-short wave broadcasting stations in the USSR, whereas, incl961, there were 60. Because of this, development, special programs are being introduced for ulbra-short wave radio listeners, from the selection of programs.

Construction of a new automatic ultra-short wave station was started in 1961. This station will broadcast two programs and will, also, act as a transmission station. For a better utilization of stations operating on ultra-short wave and for a greater reach of the programs on the network of the stations, the stations were located at a distance of 120-140 kilometers from each other. To achieve these goals, receiving equipment automatized.

Through the introduction of new technical equipment and through improved effectiveness in the operation of stations, the reception of radio programs are greatly improved.

4. TELEVISION NETWORK

The development of television in the USSR dates from 1956. At that time, there 12 television broadcasting stations, whereas in 1961, there were 112. Television programs are now broadcast from 130 television

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centers, including capitals of all republics and many industrial centers of the country, which includes over 90 million persons with television sets estimated at 8 million.

The use of modern cable main lines and of radio transmission lines has made possible the activation of a few new directions, as for example, Moscow-Leningrad, Moscow-Kiev, and others, which can improve the transmission of the program of Central Television through local retransmission television stations.

In 1959, construction of televison centers was started in Ashkhabad, Stalinabad, Khabarovsk, Grozny, Zaporozhe, Komsomolsk, Kazan, Petrozavodsk, and a few other cities. Television transmission stations were built in Andizhan, Bryansk, Tambov, Krivoi Rog, and other cities. Now in the stage of planning and designing are over 40 television centers and transmission stations. Moreover, there will be a further expansion of the network of low-power transmitters. There are now about 250 retransmission points.

*The following table shows the number of television centers and television retransmitting stations in selected years.

pee *					,		
Liczba ośrodków	1913	1940	1955	1958	1959	1960	1961
i retransmisyjmin						٠,	
stacji telewizyj-							
nych w poszcze-	-	2	18	139	210	275	347
gólnych latach(see *)					e		

SECRET NO FOREIGH DISSEM

In 1960, regular experimental work on color television was started in Moscow and Leningrad. After complete mastery of the selected system the and elimination of shortcomings, color television will be introduced in a number of television centers in the USSR, primarilly in capitals of the republics of the union.

The now expanding low-power television transmitters network of is of great significance in increasing the reach of television programs. The low cost of this equipment and the fact that the transmitters downot require constant service because they are automatic, extends television programs to tens of thousands of persons without great expenditures. Construction has been started in Moscow of the Central Television Center, which will broadcast two black and white televison programs and one experimental color televison program. In the future, the broadcasting station of Moscow Central Television Genter will broadcast simultaneously six radio programs, and five television programs, four of which will be programs and one, color. The equipment of the station is so digusted that the number of color programs be increased. One of the programs will be of an educational character.

The program of the Moscow Central Television Center can be obtained within a radius of 120-130 kilometers of the Center (the range area will be increased four to five times).

It has been decided to expand nation-wide thevision network within the next 20 years to such an extent that the central programs can be viewed in the entire area of the USSR.



NO BOLLION DISSEN

Transmitting of television program was started in the spring of 1961 during the flight of the first cosmonaut. Gagarin's welcome was viewed by persons via television in England, Poland, Sweden, Czechoslovakia, and a few other countries.

By the end of the current seven-year plan (1965), it is estimated that there will be 15 million television sets in the USSR; in 1980, each family will have a television set.

In the capitals of the soviet and the autonomous repurblics, television programs will be transmitted in two languages— in the Russian language and in the language of the area. Special devices for the television sets, which will enable the reception of a program in a given language of an area, are now being developed.

On 1 April 1960, there were 3,915,000 television subscribers in the USSR, or one million more than on 1 April 1959.

The following table shows the number of television sets in the respective republics of the USSR.

.1.	Federacja Rosyjska	2	875	000
2.	Ukraina	. * .	575	000
	Uzbekistan		. 94	000
4.	ATVIA Botwa		71	000
5.	Kazaghstan	•	63	000
6.	Azerbajdžan	"	52	000
7.	Białoruś		46	000
8.	Gruzja	•	39	000
95	Estonia		. 32	000
	Armenia	· · ·	27	000
11。	Litwa		14.	000
12.	Mołdawia		14	000
13.	Kirgiz j a		, 9.	000
14.	Tadzykistan	•	4	000
15.	Turkmenia	•	3	000 Mg F

R

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NG FELLIN BISSIN

In Moscow and the area of Moscow, the number of television sets registered during this time exceeded 1,400,000, and in Leningrad and the area of Leningrad, 425,000. The number of television sets registered in other areas of the USSR are as follows: Sverdlovsk, 122,000; Gorki, 64,000; Kuibyshev, 49,000; Rostov, 46,000; and Tula, 46,000.

5. TELEPHONE NETWORK

In 1940, 36 percent of the telephone centrals were automatic, and in 1955, over 50 percent.

The following table shows the expansion of communication in the USSR in selected years.

Wyszczególnienie	1913	1940	1955	1958	11959	1960	11961
TOTAL NUMBER OF						1	
Ogolna liczba apa- eratów telefonicz-	1.7 2.1			1 1			
nych w tys.sztuk(m/1000)	259	1225	1932	2370	2513	2697	2 <u>9</u> 32
w miastach	259	1044	1663	2032	2132	2284	2484
we wsiach	•	181	269	338	381	413	448
Liczba aparatów wies więczonych do au-				•			
Atomatycznej cen- trali telefonicz-							
nej CENTRALS	_	414	866	1180	1311	1472	1686
w miastach in cities	-	414	856	1155	1273	1417	1614
We wsiach IN RURAL AREAS	-	-	10	25	• 38	55	72
Liczba międzymia-							7
stowych to zhow te- lefonicznych w mln	0.3*)	92	135	163	172	185	197

Na terenie ZSRR do 1939 r.

IN the USSR UP To 1939.

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NO FORMATION PROFILE

The use of the multi-channel cable, through which 12 conversations can be conducted at the same, was started in 1941. During the 1950's, high-frequency apparatus for aerial and cable communication was put in use. Also, concentric cable, enabling 2,000 conversations at the same time, was put in use.

The automation of inter-regional telephone network was also started during this time. Automation of telephone centrals was started in 1950.

The following table shows the number of telephones in municipal telephone centrals in the USSR in selected years.

	1940	1955	1958	1959	1960	1961	
Republi⁄ki związkowe	CHICANA SECONDO PORTA	ween warming	raeyas ana vijetnijs mend				
		U.	7 0,00	anvun			
ZSRR USSR	1044	1663	2032	2132	2284	2484	
RVSS/AN FFDERATION Federacja Rosyjska	667	1088	1310	1374	1472	1593	
Ukrainz	162	222	279	286	305	328	
βειο Rvs' Białoruś	3 2	43.	52	54	56	62	
Uzbekistan	. 16	32	44	45	50	56	
Kaza ¢ hstan	22	51	65	70	76	84	
GEORGIA Gruzja	_22	37	42	44,4	47	51	
Azerbajdžan	20	37	47	51	53	58	
Litwa A	18	22	30	33,4	36	40	
Mołdawia	3	. 14	16	16,4	17	19	
Lotwa Lotwa	41	41	52	56	61	66	
Kirgiz j a	4	11	. 13	13	14	16	
Tadzykistan	4	9	12	13	14	16	
Armenia	9	19	26	30,4	35	40	
Turkmenia	5	12	15	15,3	17	19	
Estonia	19	25	29	30	31	36	
		7-10-10-10-10-1					

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The following table shows the number of automatic telephones connected with municipal telephone centrals in the USSR in selected years.

								-
	Republiķi związkowe	1940	1955	1958	1959	1960	1961	•
	Habutiur antdamena	-		tys. s	ztuk (in 1,000)		1
	ZSRR USSR	414	·856	1155	1273	1417	1614	
	RVSSIAN FEDERATION Federacja Rosyjska	262	613	^807	870,6	954	1060	
	Ukrainã	61	. 93	133	149	166	189	
•	Białoruś	. 8	12	19.	24,5	31	37	
	Uzbekistan	5	10	15	19	. 21	28	
	Kazathstan	0,3	12	19	23	27	38	
	Gruzja,	10	19	21	24.,7	29	38	
	Azerbajdžan	11	20,5	26	27	30	, 32	
	Litwa	9	10,6	18	23	26	. 32	
	Mordawia	1	5	8	9	11	12	
	LATVIA Lotwa	32	25	3 5 ·	38,5	47	56	
	Kirgiz j a	0,1	4	7	8	10_	11	
	Tadžýkistan	10,1	1	4	· 5 ·	5,3	6	
	Armenia	0,3	11	19	26	. 32	38	
	Turkmenia	0,3	4	6	. 6	7	10	
	Estonia	14	16.	18	20	21	27	
								-

In 1940, there were 6.4 telephones per 1,000 persons in the USSR; in 1955, 9.7 telephones; in 1960, 12.7 telephones; and in 1961, 13.4 telephones.

The following table shows export of some types of electronic equipment to various countries.

	Wyszczegolnienie	1955	1956	1957	1958	1959	1960	1961
	Radioodbiorniki Radios						-	
	i radiolo (tys. szt.)	45.5	12.7	14,8	22,1	29.8	18,6	27.7
	Albania	6	0	G.33		-	3,5	
ı	Bužgaria	-	٠.	7.7	2,4	22,3	1.7	1
1	Rumania	40.2	3.7	0.3	1 .	I	4.5	1
	Czecho szować ja		3.0		0.1	<u> </u>	-	-
J	Afganistan	0.4	4.5	1.0]	0.2		
	Wietnam		-	-	-	450	0.1	1,6
	Iran	0.2	0.6		0.1	5		
	Korea	0.4	0.3	0.06	7.4	,	-	
	Mongolia	1,3	0,3		4.0		=	-
	TELEVISION SETS, IN 1,000 Telewizory (tys. szt.) -	15.6	89,2		•	103.8	78.5
- [Bužgaria	•	-	-	4 5	0,6	1.7	2.9
	Pol ška		-	-	8.0	10.0	6.0	1
	Růmúnia	9	0.9	7.2	20.0	10.0	28.1	12.6
	Finlandin	G	-	0.1	0,2	2,1	0.5	ecs
	Crechos kowacja	0	14.6	81.9	52.7	51.6	67.1	28.1
	Iraž	-		-	-	`0,2	0.4	
- (INCAUNES IN THE INCHES	0		-	6.8	•	-	-
	Zarowki (min szt.)	0.7	2.7	8,0	5.5	3,6	3.8	10.8
1	Albania (Tys. ezt)	15.1	2.5	18,0	81.0	43.0	10.0	37.0
	Bulgaria	140,5	35 • 4	314.0	63.0	656,0	96.0	168.0
ł	Hungary Wegry	0,2	20,8	13,1	21.0	12.0	49.0	67.0
	GREECE Grecja TCEAAU	€2	0	es			300,0	6.0
	ICEAAN D Islandia Poland	•	•	•	130.0	414.0,	155.0	69.0
	Polska Polska	95.0	144,6	45.0	71.0	47.0		47.0
	Czechos zowa 6-ja	30,0	1600,0	5400 , 0	2500.0	100,0	100.0	100.0
	Jugos Lawia	a	1000	-	-	-	. ***	-
	Irak	45	43		-	312.0		69.0
	Iran	-		.	[601.0		1023,0
	Ching	101,8	29,6	63,0	28.0	1.0	16.0	23.0
	Korea	40.6	54.0	79,0	26.0	42.C		40.0
		254,0	312.7	373.0	200.0	58 . 0	293,0	937.0
	Gwinea SEGM				_ (147,d	`; _ l	
	NO FORF	icn ni	CCEN	2.00		conte	nue	on Pl

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Export Table (continued)

	ITEM 3	1955	1956	1957	1958	1959	1960	1961		-
-	Kraje Republiki Arabskiej) 45		l,	62.0	178,0	128.0	33 , 0		
and the second second	Tunis		46,0	33 , 0	0, 0,	y 1	91,0 137,0	- 1		
	Kuba.	· · · · · · · · · · · · · · · · · · ·	403.9	 887 . 0	1,0	14.0	1100,0	5500,0		
	RELAYS IN 1,000 Przekaźniki (tys.szw) CONDENSERS IN 1000 Kondensatory (tys.szt)	, , , , , , , , , , , , , , , , , , , 		9		\$	10 , 5	6	3	1
	, Aondensaudry Aysoszo,	~ / / ·	1. 1. 9. 1		n'⇔@''''''''					

